

VERSION OF AMENDED CLAIMS WITH
MARKINGS TO SHOW CHANGES MADE

1. (Amended) A method for detecting leaks in a fluid system [to be tested] in which a working gas or liquid is to be transported under pressure, said method comprising the steps of:

adding a fluorescent dye to a supply of oil within a sealed chamber to form a uniform mixture;

heating at least some of the mixture within said sealed chamber so that said oil is vaporized into smoke to create a carrier for said fluorescent dye;

delivering said smoke and said fluorescent dye carried thereby from said sealed chamber to the fluid system under test, whereby said smoke will exit a leak in the fluid system and said fluorescent dye will leave a fluorescent trace around the leak; and

shining ultraviolet light on the system under test to illuminate the trace left by the fluorescent dye around the leak.

2. (Amended) The method for detecting leaks recited in claim 1, including the additional [steps of placing the uniform mixture of oil and fluorescent dye within which a chamber and heating said at least some of the mixture by means of a] step of locating said heating element [located] within said sealed chamber.

8. (Amended) The method for detecting leaks recited in claim 4, including the additional step of blowing said at least some of said uniform mixture of oil and fluorescent dye towards said heating element by means of a [non-flammable] non-combustible gas delivered under pressure to said mixture from a gas source.

9. (Amended) The method for detecting leaks recited in claim 8, wherein said [non-flammable] non-combustible gas is nitrogen.

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